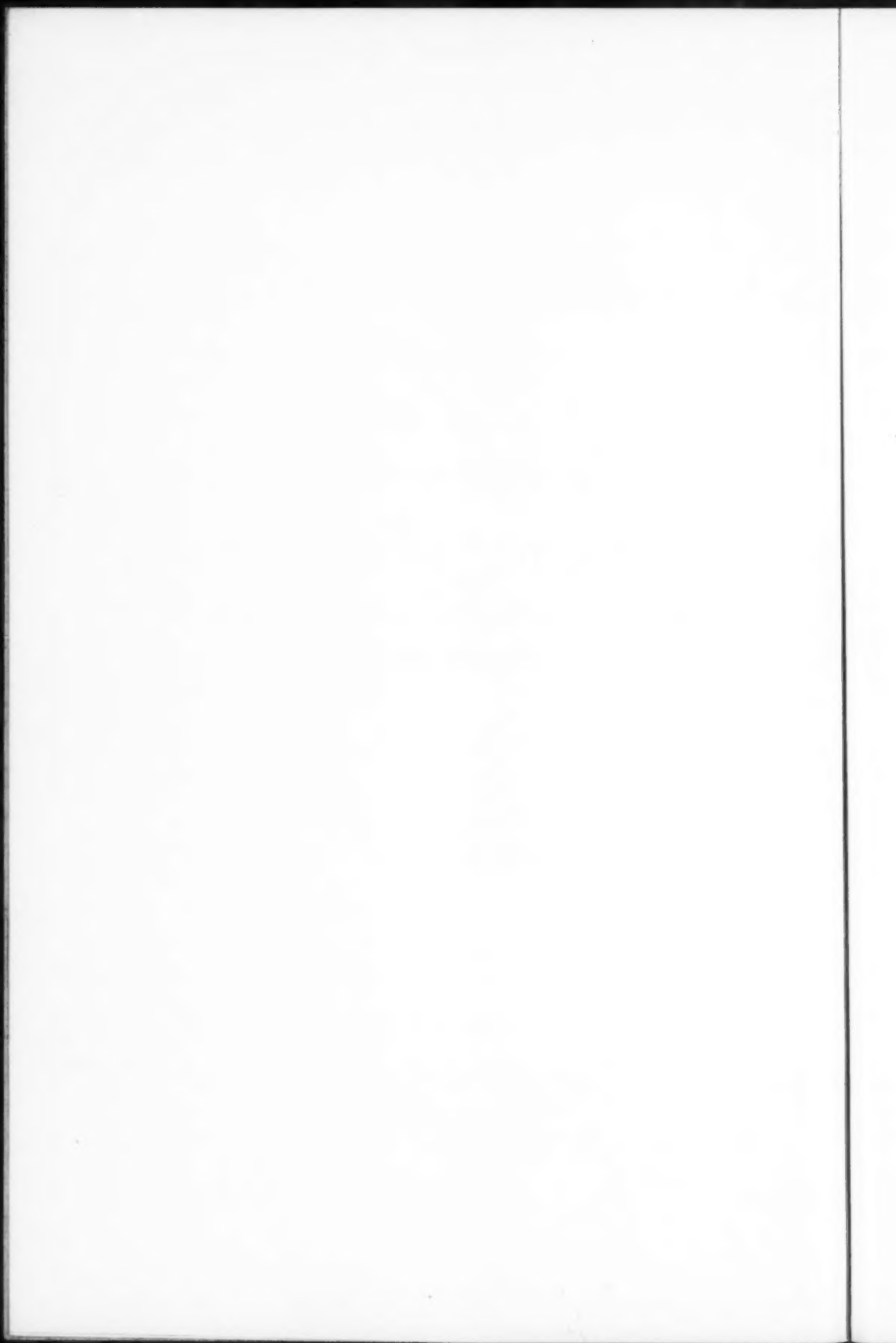


# INDEX TO THE JOURNAL

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

JANUARY-JUNE 1912



## INDEX TO THE JOURNAL, JANUARY-JUNE 1912

NOTE: Items appearing in The Journal as Society Affairs, have the month and page number given. Where the list of discussors of a paper is given, the list appears under the straight title of the paper. Papers published in The Journal previous to January, discussion of which was published during January to June, are indicated by the month, followed by 1911. All papers, reports, etc., of the Gas Power Section appear under the heading Gas Power Section. Items regarding Student Branches are so indexed. Miscellaneous items are indexed under Miscellaneous.

AUEL, C. B. <i>Arc Welding</i> .....	51
<i>Bituminous Coal Producers for Power</i> , C. M. GARLAND.....	883
California Gold Dredge, Notes on Design and Mechanical Features of the, ROBERT E. CRANSTON.....	169
Carbureters, Some Tests on, GEORGE W. MUNRO.....	341
CARHART, A. B. Addition, <i>Results of Tests on the Discharge Capacity of Safety Valves</i> , E. F. MILLER.....	239
Cast Iron, New Processes for Chilling and Hardening, THOMAS D. WEST.....	835
CHANGES IN MEMBERSHIP.....	157, 331, 452
Chillable Irons, Tests of, THOS. D. WEST.....	863
CHRISTIE, A. G. <i>The Present State of Development of Large Steam Turbines</i> .....	671
CLAYTON, J. PAUL. <i>A New Analysis of the Cylinder Performance of Reciprocating Engines</i> .....	537
COBLEIGH, H. R. <i>Modern Welding</i> .....	7
COMING MEETINGS.....	163, 333, 456
<i>Commercial Application of the Turbine Turbo-Compressor</i> , RICHARD H. RICE.....	March 1911
Discussion: E. D. DREYFUS, J. E. JOHNSON, JR., R. N. EHRHART, C. G. DE LAVAL, JULIAN KENNEDY, C. J. BACON and H. J. FREYN, CLOSURE.....	251
<i>Cost of Power with Small Units of Various Types</i> , ALBERT W. HONYWILL, E. H. LOCKWOOD, F. P. PFLEGHAR, W. J. A. LONDON.....	379
COUNCIL MEETINGS	
December 5.....	Jan., 23
December 8.....	Jan., 25
January.....	Feb., 12
February.....	Mar., 10
March.....	Apr., 9
May.....	June, 8
CRANSTON, ROBERT E. <i>Notes on Design and Mechanical Features of the California Gold Dredge</i> .....	169
Cylinder Performance of Reciprocating Engines, A New Analysis of the, J. PAUL CLAYTON.....	537

Cylinders under Internal Fluid Pressure, Strength of Steel Tubes, Pipes and, REID T. STEWART.....	493
DAY, PERCY C. <i>Herringbone Gears</i> .....	73
DEDRICK, B. W. <i>Flour Milling and Mill Engineering</i> .....	777
Development of Large Steam Turbines, The Present State of, A. G. CHRISTIE.....	671
Diesel Engine in Europe, and a Few Reminiscences of the Pioneer Work in America, The Present Status of the, RUDOLPH DIESEL....	905
DIESEL, RUDOLPH, <i>The Present Status of the Diesel Engine in Europe and a Few Reminiscences of the Pioneer Work in America</i> .....	905
Discharge Capacity of Safety Valves, Results of Tests on the, E. F. MILLER. Addition, A. B. CARHART.....	227
Discussion of Certain Thermal Properties of Steam, A, GEO. A. GOOD-ENOUGH.....	463
<i>Efficiency of Control Systems in Flying Machines, The</i> , ALBERT A. MERRILL.	773
<i>Electric Propulsion of Ships</i> , W. L. R. EMMET.....	373
Discussion: IRA N. HOLLIS, C. H. PEABODY.....	377
EMMET, W. L. R. <i>Electric Propulsion of Ships</i> .....	373
EMPLOYMENT BULLETIN.....	154, 323, 445, 657, 823, 982
<i>Equipment of a Modern Flour Mill on a Gradual Reduction System</i> , JOHN F. HARRISON and W. W. NICHOLS.....	511
<i>Factory Construction and Arrangement</i> , L. P. ALFORD and H. C. FARRELL.....	October 1911
Discussion: ALEXANDER TAYLOR, C. E. CLEWELL, G. H. STICKNEY, H. O. STEWART, L. D. BURLINGAME, H. M. LAMBOURN, F. A. WALDRON, H. K. ROWELL.....	385
FERNALD, ROBERT H. <i>The Gas Power Field for 1911</i> .....	105
<i>Flour Milling and Mill Engineering</i> , B. W. DEDRICK.....	777
<i>Flour Mill on a Gradual Reduction System, Equipment of a Modern</i> , JOHN F. HARRISON and W. W. NICHOLS.....	511
FOREIGN REVIEW.....	115, 285, 405, 609, 811, 949
GARLAND, C. M. <i>Bituminous Coal Producers for Power</i> .....	883
<i>Gas Power Field for 1911, The</i> , ROBERT H. FERNALD.....	105
GAS POWER SECTION	
Chairman's Address. <i>The Gas Power Field for 1911</i> , ROBERT H. FERNALD.....	105
Preliminary Report of Literature Committee.....	317, 439, 640, 811, 974
<i>Problems in Natural Gas Engineering</i> , THOS. R. WEYMOUTH.....	723
Gears, Herringbone, PERCY C. DAY.....	73
GOODENOUGH, GEO. A. <i>A Discussion of Certain Thermal Properties of Steam</i> .....	463
HARRISON, JOHN F. <i>Equipment of a Modern Flour Mill on a Gradual Reduction System</i> .....	511
<i>Herringbone Gears</i> , PERCY C. DAY.....	73
<i>History and Development of the Hartford Electric Light Company</i> , C. F. SCOTT.....	384
LIBRARY, ACCESSIONS TO THE.....	150, 326, 448, 661, 826, 986
MEETINGS OF OTHER SOCIETIES.....	147, 320, 441
American Chemical Society.....	146

## MEETINGS OF OTHER SOCIETIES—Continued

American Institute of Chemical Engineers.....	145
American Society of Civil Engineers.....	320
American Society of Heating and Ventilating Engineers.....	441
American Institute of Mining Engineers.....	441
Engineers' Dinner in Boston.....	Feb., 4
Engineers Society of Pennsylvania.....	320
Illinois Society of Engineers and Surveyors.....	441
International Congress of Navigation.....	June, 4
Iowa Engineering Society.....	442
Kansas Engineering Society.....	442
National Association of Master Steam and Hot Water Fitters....	June, 7
National Conservation Congress.....	814
National Irrigation Congress.....	145
New England Waterworks Association.....	320
Society for the Advancement of Education in the South.....	320
Western Association of Electrical Inspectors.....	321
Western Society of Engineers.....	321

## MEETINGS OF THE SOCIETY

Annual Meeting.....	Jan., 6
Spring Meeting.....	Mar., 3; Apr., 3; May, 3; June, 3
October: Boston, 367	
November: New Haven, 379	
December: Boston, Jan., 4; 373	
January: New York, Jan., 3; Feb., 6; Boston, Jan., 4; Feb., 4	
February: New York, Feb., 3; Mar., 5; Boston, Feb., 4; Mar., 7;	
773; St. Louis, Mar., 5; Philadelphia, Mar., 6	
March: St. Louis, 642; Philadelphia, 642, 777, New York, 643;	
Boston, 643; Providence, 813	
April: New York, Apr., 4; May, 12; New Haven, Apr., 5; 814; St.	
Louis, 814; May, 12; San Francisco, 976	
May: Boston, June, 5; 976; New York, June, 976	
June: St. Louis, June, 5;	
MEIER, E. D. Presidential Address. <i>The Engineer and the Future</i> .....	1
MERRILL, ALBERT A. <i>The Efficiency of Control Systems in Flying Ma-</i>	
<i>chines</i> .....	773
MILLER, E. F. <i>Results of Tests on the Discharge Capacity of Safety Valves.</i>	
Addition, A. B. CARHART.....	227

## MISCELLANEOUS

Code of Ethics for Engineers.....	Apr., 10
Current Affairs of the Society.....	Jan., 5; Feb., 14
Display of Ericsson Models.....	Apr., 6
Ericsson Medal for George Westinghouse.....	Mar., 7
Elections to Honorary Membership.....	Apr., 9
Foreign Review.....	Apr., 7
German Museum Commission.....	May, 8
Honorary Membership Conferred on Dr. Diesel.....	June, 6
Important Announcement Regarding Annual Meeting.....	May, 13

MISCELLANEOUS—*Continued.*

Measurement of Taps, Bolts and Screws.....	May, 12
Meetings in Honor of Dr. Diesel.....	May, 12
Patent Conference at Washington.....	May, 13
Request from New York Library.....	Apr., 5
Resuscitation from Electric Shock.....	Apr., 10
Testimonial from Stevens Alumni to Dr. Denton.....	May, 13
Visits of the Secretary.....	Apr., 8
MUNRO, GEORGE W. <i>Some Tests on Carbureters</i> .....	341
Natural Gas Engineering, Problems in, THOS. R. WEYMOUTH.....	723
NECROLOGY	
Ernest S. Bowen.....	979
W. F. Buck.....	648
Henry W. Bulkley.....	Jan., 50
Thomas B. Davis.....	Jan., 50
Joseph James Ferrier.....	Jan., 51
Lee D. Fisher.....	821
Caryl D. Haskins.....	Feb., 36
Milton P. Higgins.....	649
Albert W. Jacobi.....	650
Warren S. Johnson.....	Feb., 37
James P. S. Laurance.....	979
George Wallace Melville.....	Apr., 12; 648
Edward W. Mix.....	Feb., 37
Hugh S. Morrison.....	Feb., 38
John G. Ould.....	651
Edward S. Renwick.....	819
Thomas F. Salter.....	Feb., 38
Edward K. Sancton.....	651
Henry W. Spangler.....	818
Francis H. Stillman.....	652
George H. Sulzer.....	981
John Burkitt Webb.....	653
I. Chester G. Wilkins.....	980
Frederick W. Wolf.....	655
<i>New Analysis of the Cylinder Performance of Reciprocating Engines, A,</i> J. PAUL CLAYTON.....	537
<i>New Haven Meeting: Cost of Power with Small Units of Various Types,</i> ALBERT W. HONYWILL, E. H. LOCKWOOD, F. P. PFLEGHAR, W. J. A. LONDON; <i>The Work of the Society,</i> E. D. MEIER; <i>The History and</i> <i>Development of the Hartford Electric Light Company,</i> C. F. SCOTT... <i>New Processes for Chilling and Hardening Cast Iron,</i> THOMAS D. WEST... NICHOLS, W. W. <i>Equipment of a Modern Flour Mill on a Gradual Reduc-</i> <i>tion System</i> .....	379 835 511
NORTON, CHAS. L. <i>Some Refractory Substitutes for Wood</i> .....	359
<i>Notes on Design and Mechanical Features of the California Gold Dredge,</i> ROBERT E. CRANSTON.....	169
OFFICERS, NEW	
Alexander Crombie Humphreys.....	Jan., 28

OFFICERS, NEW—*Continued.*

William Frederick Durand.....	Jan., 30
Ira Nelson Hollis.....	Jan., 31
Thomas B. Stearns.....	Jan., 31
Charles Jackson Davidson.....	Jan., 32
Henry Hess.....	Jan., 33
George A. Orrok.....	Jan., 34
<i>The Present Status of the Diesel Engine in Europe, and a Few Reminiscences of the Pioneer Work in America, RUDOLPH DIESEL.....</i>	905
Producers for Power, Bituminous Coal, C. M. GARLAND.....	883
Report of Special Committee on Flanges.....	Feb., 17
PELLISSIER, G. E. <i>Thermit Welding</i> .....	39
PERSONALS.....	149, 322, 443
<i>Pipes and Cylinders under Internal Fluid Pressure, Strength of Steel Tubes, REID T. STEWART.....</i>	493
<i>Power System of the Pacific Mills, F. A. WALLACE.....</i>	367
Presidential Address. <i>The Engineer and the Future, E. D. MEIER.....</i>	1
<i>Present State of Development of Large Steam Turbines, The, A. G. CHRISTIE.....</i>	671
<i>Problems in Natural Gas Engineering, THOS. R. WEYMOUTH.....</i>	723
<i>Reciprocating Engines, A New Analysis of the Cylinder Performance of, J. PAUL CLAYTON.....</i>	537
<i>Reduction in Temperature of Condensing Water Reservoirs due to Cooling Effect of Air and Evaporation, The, W. B. RUGGLES.....</i>	601
REPORTS	
House Committee.....	Jan., 35
Library Committee.....	Jan., 35
Committee on Meetings.....	Jan., 36
Committee on Membership.....	Jan., 39
Publication Committee.....	Jan., 40
Public Relations Committee.....	Jan., 41
Research Committee.....	Jan., 44
Standardization of Flanges.....	Feb., 17
<i>Results of Tests on the Discharge Capacity of Safety Valves, E. F. MILLER. Addition, A. B. CARHART.....</i>	227
<i>RUGGLES, W. B. The Reduction in Temperature of Condensing Water Reservoirs due to Cooling Effect of Air and Evaporation.....</i>	601
<i>Some Refractory Substitutes for Wood, CHAS. L. NORTON.....</i>	359
Discussion: F. E. CABOT, W. L. PUFFER, F. F. JONSBURG, F. A. WALDRON, H. F. BRYANT, L. S. COWLES, F. B. SANBORN, E. V. FRENCH, L. H. KUNHARDT, Closure.....	365
<i>Some Tests on Carbureters, GEORGE W. MUNRO.....</i>	341
<i>Steam Turbines, The Present State of Development of Large, A. G. CHRISTIE.....</i>	671
<i>Steel Tubes, Pipes and Cylinders under Internal Fluid Pressure, Strength of, REID T. STEWART.....</i>	493
<i>STEWART, REID T. Strength of Steel Tubes, Pipes and Cylinders under Internal Fluid Pressure.....</i>	493
<i>Strength of Steel Tubes, Pipes and Cylinders under Internal Fluid Pressure, REID T. STEWART.....</i>	493

## STUDENT BRANCHES

Armour Institute of Technology . . . . .	Jan., 20; Feb., 33; Mar., 8; 644; 815
Columbia University . . . . .	Jan., 20; 644; 815; 977
Cornell University . . . . .	Jan., 20; Mar., 8; 644; 815; 977
Lehigh University . . . . .	Jan., 20; 644
Leland Stanford Jr. University . . . . .	Mar., 8
Massachusetts Institute of Technology . . . . .	Jan., 21; Feb., 33; Mar., 8; 644; 815; 977
Ohio State University . . . . .	Jan., 21; Feb., 33; Mar., 9; 645
Pennsylvania State College . . . . .	645; 815
Polytechnic Institute of Brooklyn . . . . .	Feb., 34; Mar., 9; 816; 977
Purdue University . . . . .	816
Rensselaer Polytechnic Institute . . . . .	Jan., 21; 645; 978
State University of Kentucky . . . . .	Jan., 21; Feb., 35; Mar., 9; 645
Stevens Institute of Technology . . . . .	Jan., 21; Feb., 34; Mar., 9; 645; 980
University of Arkansas . . . . .	816
University of California . . . . .	978
University of Cincinnati . . . . .	Jan., 22; Feb., 34; Mar., 9; 816; 980
University of Illinois . . . . .	Jan., 22; Mar., 9; 646; 817; 980
University of Kansas . . . . .	Jan., 22; Feb., 35; Mar., 10; 646; 817; 980
University of Missouri . . . . .	Jan., 22; Feb., 35; Mar., 10; 646; 817; 980
University of Nebraska . . . . .	647
Washington University . . . . .	Jan., 23; 817
Yale University . . . . .	Jan., 23; Mar., 10; 647; 817

## SYMPOSIUM ON WELDING

<i>Modern Welding Processes</i> , H. R. COBLEIGH . . . . .	7
<i>Thermit Welding</i> , G. E. PELLISSIER . . . . .	39
<i>Arc Welding</i> , C. B. AUER . . . . .	51
Discussion . . . . .	63
Temperature of Condensing Water Reservoirs due to Cooling Effect of Air and Evaporation, The Reduction in, W. B. RUGGLES . . . . .	601
<i>Tests of Chillable Irons</i> , THOS. D. WEST . . . . .	863
Thermal Properties of Steam, A Discussion of Certain, GEO. A. GOOD-ENOUGH . . . . .	463
WALLACE, F. A. <i>Power System of the Pacific Mills</i> . . . . .	367
WEST, THOMAS D. <i>New Processes for Chilling and Hardening Cast Iron</i> . . . . .	835
WEST, THOMAS D. <i>Tests of Chillable Irons</i> . . . . .	863
WEYMOUTH, THOS. R. <i>Problems in Natural Gas Engineering</i> . . . . .	723
<i>Work of the Society, The</i> , E. D. MEIER . . . . .	384



